

USE OF GENE PRODUCT OF ADENOVIRUS EARLY REGION 4 ORF-6
TO INHIBIT REPAIR OF DOUBLE-STRAND BREAKS IN DNA

Abstract of the Disclosure

5 The present invention provides a modified adenovirus
comprising genomic adenoviral DNA which has been
modified so that (i) the only gene product of the early
region (E4) that is expressed is open reading frame 6
(ORF-6), (ii) neither the gene product of the E1A region
nor the gene product of the E1B region is expressed, and
10 (iii) no other early or late gene products are
expressed. The present invention also provides methods
of inhibiting repair of breaks in double-stranded DNA in
a cell, preventing concatamerization of linear wild-type
adenoviral DNA, inhibiting V(D)J recombination of
15 nucleic acid sequences encoding immunoglobulins,
preventing apoptosis, and preventing and treating
cancer.